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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,826	07/10/2003	Mark Bradford Clifton	Clifton 9-110-23	2685

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EXAMINER
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FICK, ANTHONY D

ART UNIT	PAPER NUMBER
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1753

DATE MAILED: 04/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

CA

<b>Office Action Summary</b>	<b>Application No.</b> 10/616,826	<b>Applicant(s)</b> CLIFTON ET AL.	
	<b>Examiner</b> Anthony Fick	<b>Art Unit</b> 1753	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 10 July 2003.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 July 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7/10/03
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Objections*

1. Claim 3 is objected to because of the following informalities: in line 1, the word "a" appears to be unnecessary. Appropriate correction is required.

### *Claim Rejections - 35 USC § 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1 through 4, 6 through 11 and 13 through 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Sundhar (U.S. 4,955,203).

Sundhar discloses an air conditioner for a parked automotive vehicle. The apparatus shown in figure 1, comprises a solar energy collector cell, 32, configured to convert light into electrical current for transfer to a device, shown in figure 6, and a portable substrate configured to support the solar energy collector, 12, the portable substrate to be used in conjunction with a vehicle (title of patent). Thus claim 1 is met. Figure 6 shows the connector coupled to the solar energy cell to transfer electrical current to a device, 58, as in claim 2. Sundhar further discloses the substrate, 12, is foldable (column 3, paragraph 3) as in claim 3 and is a sun shield associated with vehicles (column 2, paragraph 12) as in claim 4. Figure 6 shows the devices powered by the solar energy collector cell. The devices include a fan, a cooling unit, and a heat exchange unit (column 3, paragraph 4 and column 4, paragraph 1) as in claim 6.

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Sundhar also discloses the substrate is positioned on the interior side of a window (column 4, paragraph 2) as in claim 7. The solar energy collector is a plurality of solar cells connected by a fastener to the solar panel shield (column 3, paragraph 1) as in claim 8.

The plurality of solar cells connected to the solar panel shield and connected to a device as shown in figure 6, also meets claim 9. The solar panel shield is a foldable material (column 3, paragraph 3) as in claim 10 and is a sun shield associated with vehicles that possess a window (column 2, paragraph 12) as in claim 11. The devices shown in figure 6 also meet claim 13. The portable substrate is on the interior side of the window as in claim 14 and the solar panel shield has a plurality of solar cells connected to it by fasteners as in claim 15.

Further, the solar panel shield also meets claim 16 as a sun shield comprising solar cells, a fastener, and a connector. Once again the devices of figure 6 also meet claim 17. The solar panel shield has solar cells connected by fasteners as in claim 18 and the sun shield is used within any automotive vehicle (title of patent) as in claim 19.

4. Claims 1, 5, 6, 9, 12 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Little (U.S. 4,740,431).

Little discloses an integrated solar cell and battery. As shown in figure 6, the apparatus contains a plurality of solar cells, 144, connected to a plurality of thin film batteries, 134, 136, 138 and 140, all on a single substrate, 130. The integrated solar cell and battery are designed to power calculators, wristwatches, and emergency lights (column 7, paragraph 4). These portable devices can be used within a vehicle, a

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storage shed, a camping tent, a hut and a building. Thus the substrate is a portable substrate and supports multiple solar energy collector cells (column 6, paragraph 3).

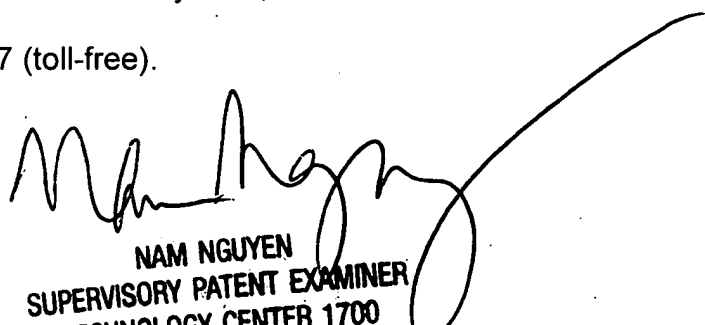
Figure 6 also shows connectors between the solar cells and batteries, 152. Thus claims 1 and 9 are met. The devices powered by the solar cells are the thin film batteries that as shown in figure 6 are also integral to the substrate. Thus claims 5, 6, 12 and 13 are also met.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony Fick whose telephone number is (571) 272-6393. The examiner can normally be reached on Monday thru Friday 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anthony Fick *ADF*  
AU 1753  
April 14, 2006

  
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SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 1700